

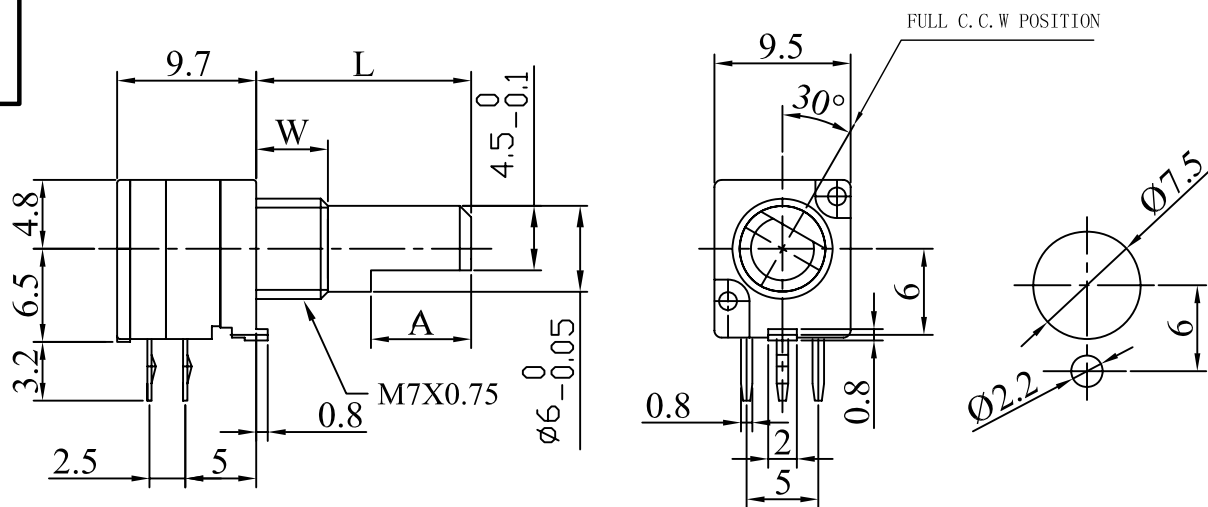
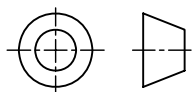


电位器规格书

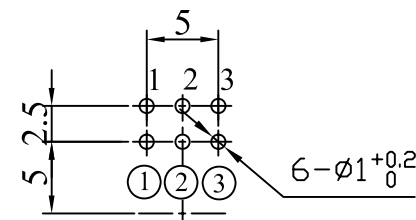
POTENTIOMETER SPECIFICATIONS

1 一般事项 General information	
1-1 适用型号 Applicable models	R095、R096、R097、R098、R09J、R09P、R09B 系列 R095/R096/R097/R098/R09J/R09P/R09B Serial
1-2 使用环境温度 Usage environment temperature	<input checked="" type="checkbox"/> - 10℃ ~ + 70℃ <input type="checkbox"/> - 20℃ ~ + 70℃
1-3 保存环境温度 Storage environment temperature	- 40℃ ~ + 85℃
1-4 测试条件 Test condition	温度: 5~35℃, 湿度: 45~85%HR Temperature:5~35℃, Moisture:45~85%HR
1-5 环保要求 Environmental requisition	本产品符合 RoHS 指令 This product is compliant with RoHS Directive
1-6 耐焊接热 Soldering heat-resistance	1、手工焊接温度最高 350℃ ± 5℃, 3 秒; 2、自动焊接温度最高 260℃ ± 5℃, 3 秒; 基板表面预热温度最高 100℃, 1 分钟以内; 3、以上过程均保证在 1 到 2 次。 1. Soldering iron Max ,350℃ ± 5℃ at 3 sec 2. Auto soldering 260℃ ± 5℃ max. at 3 Sec. Preheating temperature of board surface: 100℃ max. at within 1 minutes. 3. To guarantee the above process at 1 or 2 times.
1-7 原产地 Country of origin	中国 China
2 构造 Construction	
2-1 外观 Appearance	各部件应完整, 无锈蚀、裂痕、电镀不良 Every part should finished, not exist rust flaw crack and bad plating
2-2 寸法 Measurements	依照图面规定 Under conditions prescribed by design drawing.
3 机械性能 Mechanical characteristics	
3-1 全回转角度 Total rotational angle	<input checked="" type="checkbox"/> 300° ± 10° <input type="checkbox"/> _____
3-2 回转力矩 Rotational torque	10~200gf.cm (旋转速度: 60° /1 秒) 10~200gf.cm (Rotational velocity : 60° /1 Sec.)
3-3 CC 脱出力 Detent torque	80~250gf.cm
3-4 CC 点数 Detent quantity	<input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 21 <input type="checkbox"/> 41 <input type="checkbox"/> _____
3-5 回转止动强度 Rotational stopper strength	<input checked="" type="checkbox"/> ≥ 3Kgf.cm <input type="checkbox"/> ≥ 8Kgf.cm <input type="checkbox"/> ≥ 4Kgf.cm <input type="checkbox"/> ≥ 5Kgf.cm
3-6 轴压引强度 Pull-Push Strength of Shaft	<input checked="" type="checkbox"/> ≥ 8Kgf <input type="checkbox"/> ≥ 10Kgf
3-7 螺母锁紧强度 Nut tightening strength	≥ 10Kgf.cm
3-8 轴摇晃度 Shaft wobble	在单个轴芯顶端施加 250gf, 轴径向偏移量小于: 0.7*轴长 L 尺寸/20mm On the tip of the single shaft exert 250gf , Shaft radial deviant be smaller than: 0.7*shaft long L size/20mm
4 电气性能 Electrical characteristics	
4-1 全阻抗值 Total resistance	<input checked="" type="checkbox"/> 20 KΩ ± 20% <input type="checkbox"/> _____ KΩ ± 10% <input type="checkbox"/> _____ KΩ + _____ % / - _____ %
4-2 阻抗变化特性 Resistance taper	<input type="checkbox"/> A <input checked="" type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> _____

4-3 残留阻抗值 (端子: 1-2, 2-3) End resistance (Terminal :1-2, 2-3)	$R \leq 10K \Omega$; $\leq 10 \Omega$; $10K \Omega < R \leq 250K \Omega$; $\leq 20 \Omega$; $R > 250K \Omega$; $\leq 0.1\%R$			
4-4 定格电力 Ratings power	B 线性: 0.05W, 其它线性: 0.025W B Taper : 0.05W, Other taper : 0.025W			
4-5 最高使用电压 Maximum operating voltage	B 线性: 20V DC 或 50V AC, 其它线性: 12V DC 或 25V AC B Taper : 20V AC or 50V AC, Other taper : 12V DC or 25V AC			
4-6 滑动杂音 Slider noise	<100mV			
4-7 同步误差 Gang error	<input checked="" type="checkbox"/> $\pm 4dB$ (-40dB~0dB) <input type="checkbox"/> $\pm 3dB$ (-40dB~0dB) *只适用于双联 *Apply the Dual-Unit only			
4-8 绝缘抵抗 Insulation resistance	250V DC, >100M Ω			
4-9 耐电压 Voltage proof	300V AC 1 分钟以上 1 Minute at 300V AC			
4-10 回转寿命 Rotational life	<input type="checkbox"/> 10,000 cycles <input type="checkbox"/> 15,000 cycles <input type="checkbox"/> 30,000 cycles 注: 无负荷状态以每小时 600 周旋转, 允许阻值最大变化 $\pm 15\%$ 。 On the without load status according to the 600 r./h rotation, permissible resistance change $\pm 15\%$ max.			
5 开关性能 Switch characteristics				
<input type="checkbox"/> 适用 <input checked="" type="checkbox"/> 不适用 Apply No apply				
5-1 开关型式 Switch type	<input type="checkbox"/> 旋转式 <input type="checkbox"/> 按压复位式 Rotate type Push-Push type			
5-2 开关回路 Switch circuit	单极单投 S.P.S.T			
5-3 开关定格电力 Switch ratings power	旋转开关: 12V DC 1A 按压复位开关: 12V DC 0.5A Rotate switch: 12V DC 1A Push-Push switch: 12V DC 0.5A			
5-4 开关接触电阻 Switch contact resistance	寿命初期: 100 m Ω 最大, 开关 10,000 次以后: 最大 1 Ω The life initial stage: 100 m Ω max., after on-off 10,000 cycles: 1 Ω max.			
5-5 开关工作角度或行程 Switch working angle or track	旋转开关: 50° \pm 10° 按压复位开关行程: 0.5mm 或 1.5mm, 具体参照图纸 Rotate switch: 50° \pm 10° . Push-Push switch track: 0.5mm or 1.5mm, specific reference to the drawing.			
5-6 开关工作力矩 Switch working torque	旋转开关: 最大 800gf.cm 按压开关: 700 \pm 300gf Rotate switch: 800gf.cm max. Push-Push switch: 700 \pm 300gf			
5-7 开关寿命 Switch life	10,000 cycles			
6 防水性能 Waterproof characteristics				
6-1 防水标准 Waterproof standard	<input checked="" type="checkbox"/> 不适用 No apply <input type="checkbox"/> 七级防水 电位器轴芯轴套置于水中 1 米深处, 其它部件密封后暴露在标准大气压中, 30 分钟后电位器内部未进水。 Grade -7 of Waterproof standard Potentiometer's Shaft and Bush in 1M deep of water, other component sealed after be exposed to the standard atmosphere, after 30 minutes no water into the Potentiometer' inner.			
东莞市长泰尔电子有限公司 DONG GUAN CHANG TAI ER ELECTRONIC CO., LTD.		制作 Designed By	审核 Checked By	核准 Approved By
				

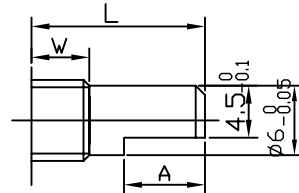


Mounting hole detail



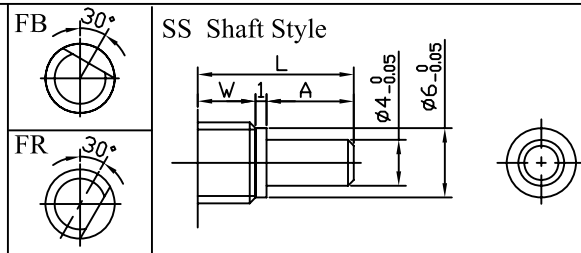
轴的类型:

F Shaft Style



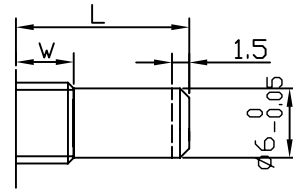
L	15	20	25	30	15	20		
A	7	12	12	12	3.5	7		

SS Shaft Style



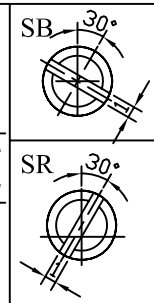
L	30.4			
A	22.4			

S Shaft Style

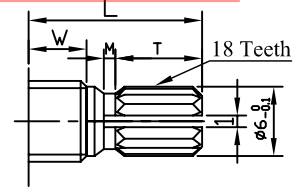


L	8	13	15	20	25	30
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SB Shaft Style

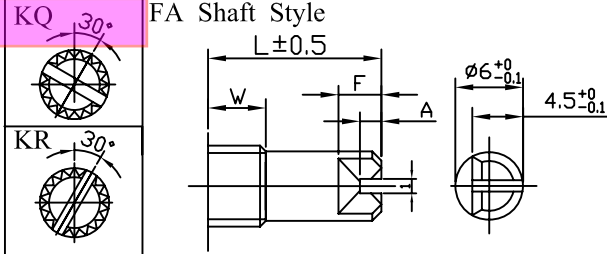


K Shaft Style



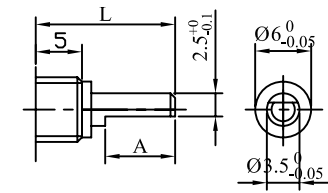
L	12	15	15	20	25	22	15	20	20	30
T	3.5	6	7.5	12	12	12	3.5	6.5	10	12
M	0.5	1	1	2	2	2	0.5	2	1	2

FA Shaft Style



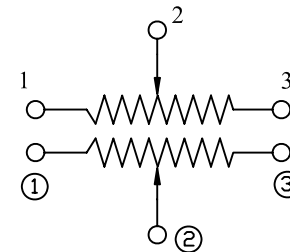
L	10	15	10
A	1	1.5	1
F	3	1.5	2

FD Shaft Style



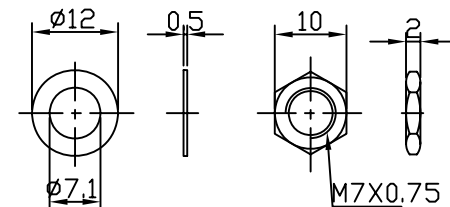
L	20		
A	8		

CIRCUIT:GO



product code	W
R09710GO	5
R09720GO	7
R09730GO	10

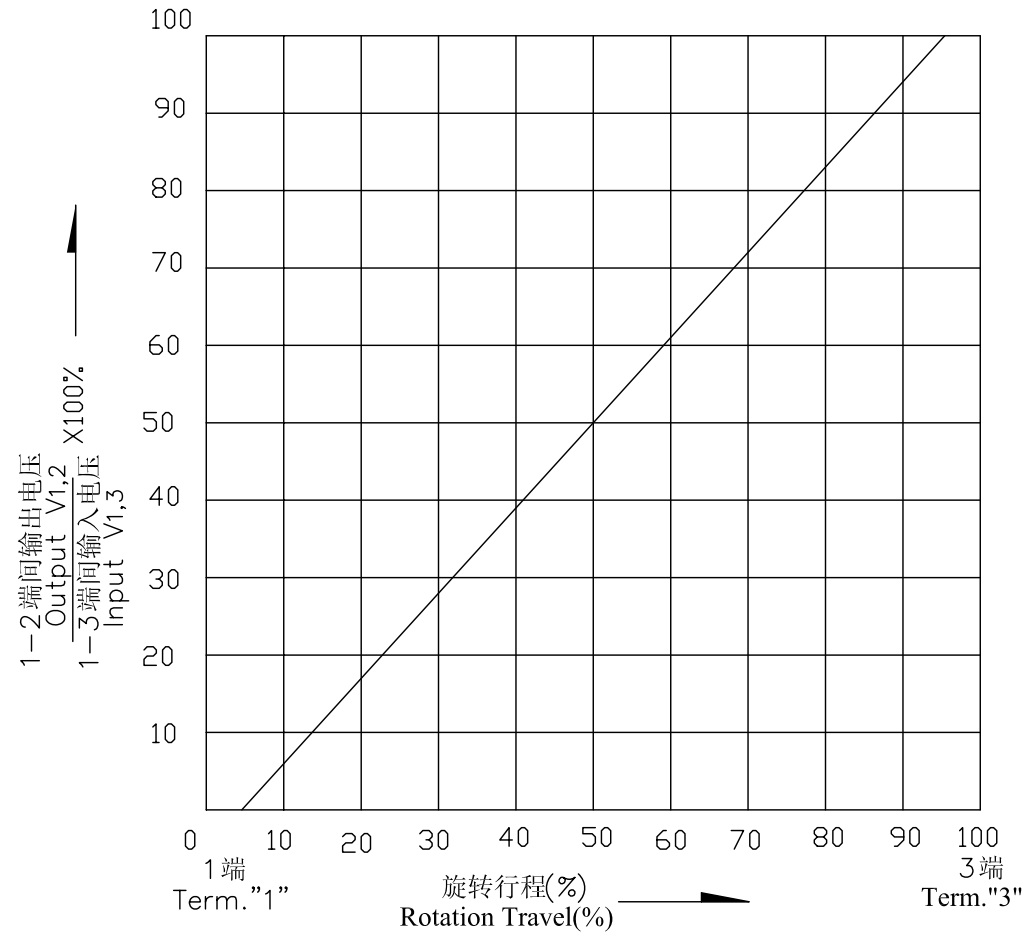
Washer 垫圈(可选项) Nut 螺母(可选项)



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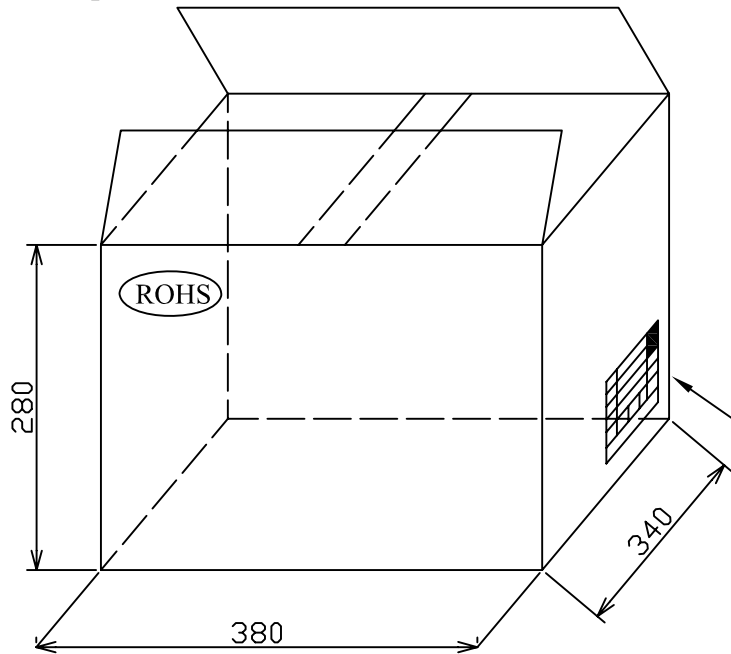
未注尺寸公差	比例	2:1	版本	1.7	设计	审核	批准
L ≤ 1.0时 ±0.1	品名	R097□0GO 组立图			工程部 2016.02.20 谢敏	工程部 2016.02.20 喻钊	工程部 2016.02.20 彭先炎
1.0 < L ≤ 10时 ±0.3	图号	R097□0GO-					
10 < L ≤ 30时 ±0.5							
30 < L ≤ 100时 ±1.0							

曲线变化特性: B (0B)
TAPER B (0B)

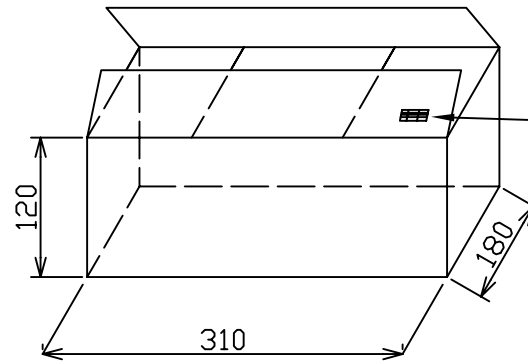


东莞市长泰尔电子有限公司 DONG GUAN CHANG TAI ER ELECTRONICS CO.,LTD.						
比例 Scale	2:1	版本 Edition	1.0	设计 Designed By	审核 Checked By	批准 Approved By
品名 Type Name	阻值变化特性曲线 Resistance taper			工程部 2016.02.20 谢敏	工程部 2016.02.20 喻钊	工程部 2016.02.20 彭先炎
图号 Dwg.NO.	R-CURVE-B					

外箱:
Outer carton box:
1箱放4个内箱
A box put 4 Inner carton box



内箱:
Inner carton box:
1箱放9层包装盒
A box put 9 layer tray



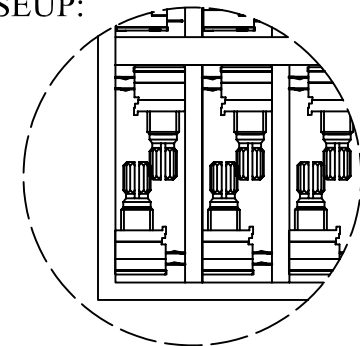
(装箱标签)
(Packing label)

SUPPLIER 供应商		RoHS
PART No. 料号		
TYPE 型号		
QTY 数量	DATE 日期	
LOT No. 批号		

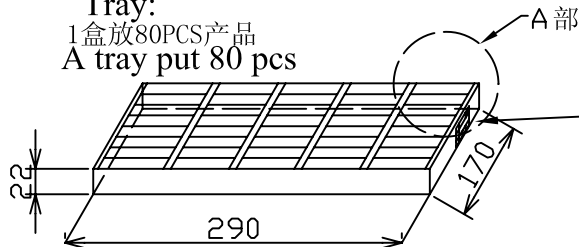
(装箱标签)
(packing label)

装箱单 Packing list			
Customer 客户名称			RoHS 符合
Customer NO. 客户料号			
Type 型号规格	PO No. 订单号码		
Q.T.Y 数量	Date 日期		
Box No. 箱号	Total Box QTY 总箱数	QC 检验	
DONG GUAN CHANG TAI ER ELECTRONICS CO.,LTD 东莞市长泰尔电子有限公司			

A部局部视图
"A" CLOSEUP:



包装盒:
Tray:
1盒放80PCS产品
A tray put 80 pcs



(产品标签)
(Item label)

Part No. 料号		RoHS
TYPE 型号		
LOT NO 批号	QTY 数量	

螺母、垫片包装:

Washer & nut package:

螺母、垫片分别用塑料袋装料封口;

配套装箱数量与产品数量相符合。

Washer & nut should be sealed in plastic bag respectively;

It should be packaged in every corresponding box,

Its Quantity should be equal to product quantity.

东莞市长泰尔电子有限公司
DONG GUAN CHANG TAI ER ELECTRONICS CO., LTD

单位 Unit	毫米 mm	版本 Edition	1.0	设计 Designed By	审核 Checked By	批准 Approved By
品名 Type Name	R09710G0 包装 R09710G0 Packing			工程部 2016.02.20 谢敏	工程部 2016.02.20 喻钊	工程部 2016.02.20 彭先炎
图号 Dwg.NO.	R09710G0-KQ15A6.0-□□□□□□					